◆IEEE

IEEE Xplore®
RELEASE 1.4

Welcome to IEEE *Xplore*®

Tables of Contents

○ Home
○ What Can
  I Access?
○ Log-out

Tables of Contents

○ Journals
  & Magazines
○ Conference
  Proceedings
○ Standards

Search

○ By Author
○ Basic
○ Advanced

Member Services

○ Join IEEE
○ Establish IEEE
  Web Account

○ Access the
  IEEE Member
  Digital Library

🖶 Print Format

High isolation SAW antenna duplexer modules

Kamogawa, N. Shiba, T. Ishizaki, T. Okajima, D. Hosaka, N. Moteki, M. Ogawa, S
Oda, K. Hikitai, M.
Hitachi Media Electron. Ltd, Yokohama;

Abstract:
Optimized phase shifter conditions for SAW antenna duplexer modules at not
ohm cases have been analytically provided to achieve desired isolation
performances. In order to confirm the prediction, obtained optimum conditior
applied to two cases. In the EGSM/DCS dual band SAW antenna duplexer mo
case, impedances of low noise amplifier connecting the Rx ports are not 50 ol
when the amplifier are off state at transmitter period. We propose a optimize·
phase shifter circuit for EGSM and DCS Rx output ports using the equation. Ir
Japanese cdmaOne duplexer case, we also propose an optimized phase shifte
circuit for the transmitter circuit between Rx band trap and transmitter top filt
block. The predictions are verified by the experiments

Index Terms:
antenna accessories multifrequency antennas phase shifters surface acoustic wave
devices 50 ohm EGSM/DCS dual band operation Japanese cdmaOne SAW antenn
duplexer module isolation characteristics low noise amplifier phase shifter transmitte
circuit

Documents that cite this document
Select link to view other documents in the database that cite this one.

WEST Search History

DATE: Wednesday, June 25, 2003

Set Name	Query	Hit Count	Set Name result set
side by side			
	DB=EPAB,DWPI; PLUR=YES; OP=ADJ	6	L18
L18	L17 and phase shift$	86	L17
L17	L15 and impedance	7	L16
L16	L15 and reflection coefficient	1909	L15
L15	L14 and (duplex$ or branching or (transmi$ and (receiv$ or recept$)))	54498	L14
L14	(surface acoustic wave or surface wave or elastic surface wave or acoustic wave or saw or surface elastic wave or elastic wave)		
	DB=JPAB; PLUR=YES; OP=ADJ	0	L13
L13	l10 and reflection coefficient	19	L12
L12	l10 and impedance	5	L11
L11	L10 and phase shift$	494	L10
L10	L9 and (duplex$ or branching or (transmi$ and (receiv$ or recept$)))	20405	L9
L9	(surface acoustic wave or surface wave or elastic surface wave or acoustic wave or saw or surface elastic wave or elastic wave)		
	DB=USPT; PLUR=YES; OP=ADJ	34	L8
L8	L7 and (333/$.ccls. or 310/$.ccls. or 29/$.ccls. or 455/$.ccls.)	181	L7
L7	l2 and phase shift$ and reflection coefficient	11	L6
L6	l2 and (phase shift$ with reflection coefficient)	0	L5
L5	l2 and (phase shift$ withe reflection coefficient)	496	L4
L4	l2 and reflection coefficient		
L3	((((surface acoustic wave or surface wave or elastic surface wave or acoustic wave or saw or surface elastic wave or elastic wave))and (transmit$ or transmission) and (receiv$ or reception)) and (phase shift$ with impedance))	98	L3
L2	(((surface acoustic wave or surface wave or elastic surface wave or acoustic wave or saw or surface elastic wave or elastic wave)) and (transmit$ or transmission) and (receiv$ or reception))	19231	L2
L1	((surface acoustic wave or surface wave or elastic surface wave or acoustic wave or saw or surface elastic wave or elastic wave))	61786	L1

END OF SEARCH HISTORY